

# Notice of Allowability

Application No.

09/579,623

Examiner

Tony Mahmoudi

Applicant(s)

IBITAYO ET AL.

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 10-October-2005.
2. ☒ The allowed claim(s) is/are 1-2, 6-9, and 11-14, re-numbered as claims 1-10.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20051104-1.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

JERRY CAFFIN

SENIOR PATENT EXAMINER

20051104

## **DETAILED ACTION**

### ***Remarks***

1. In response to the amendment filed on 10-October-2005, independent claims 1, 9, and 14 are amended by the applicant.
2. In view of the examiner's amendment, authorized by the Attorney of Record (details provided below), claims 3-5 and 10 are canceled and claims 1, 6-9, and 11-14 are amended. Therefore, claims 1-2, 6-9, and 11-14 are presently pending in the application, of which, claims 1, 9, and 14 are presented in independent form.

### ***Examiner's Amendment***

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Grant Rodolph (Attorney of Record) on 04-November-2005 (see enclosed Interview Summary, paper No. 20051104-1.)

### ***Listings of Claims***

4. The following listing of claims replaces all previous claim listings:

1. (Currently Amended) A framework for isolating a business component from specific implementation of a datastore, comprising:

- (a) a database wrapper in communication with a business component;
- (b) a domain object factory in communication with the database wrapper;
- (c) a domain object in communication with the domain object factory; and
- (d) a datastore in communication with the domain object, wherein the database wrapper provides an additional abstraction layer between the domain object factory and the business component;

wherein the domain object factory further comprises a domain object interface in communication with the database wrapper and a domain object factory implementation implementing the domain object;

wherein the domain object further comprises a domain object interface in communication with the domain object factory and a domain object implementation retrieving data from a datastore; and

wherein data is converted from a persistent state to a transient state prior to being passed from the database wrapper to the business component.

2. (Original) The framework of claim1 wherein the database wrapper further comprises a database wrapper interface in communication with the business component and a database wrapper implementation implementing the domain object factory.

3. (canceled).

4. (canceled).

5. (canceled).

6. (Currently Amended) The framework of claim [[5]] 2 wherein the datastore is a relational database.

7. (Currently Amended) The framework of claim [[5]] 2 wherein the datastore is an object database.

8. (Currently Amended) The framework of claim [[5]] 2 wherein the datastore is accessed remotely.

9. (Previously Amended) A method for isolating a business component from specific implementation of a datastore, comprising:

- (a) interfacing a database wrapper to a business component;
- (b) implementing the database wrapper;
- (c) interfacing a domain object factory to the database wrapper;
- (d) implementing the domain object factory;
- (e) interfacing a domain object to the domain object factory; and

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(f) implementing the domain object to retrieve data from a datastore, wherein the database wrapper provides an additional abstraction layer between the domain object factory and the business component;

wherein the domain object factory comprises a domain object interface in communication with the database wrapper and a domain object factory implementation implementing the domain object;

wherein the domain object comprises a domain object interface in communication with the domain object factory and a domain object implementation retrieving data from a datastore; and

wherein data is converted from a persistent state to a transient state prior to being passed from the database wrapper to the business component.

10. (Cancelled).

11. (Currently Amended) The framework of claim [[10]] 2 wherein the datastore is a relational database.

12. (Currently Amended) The framework of claim [[10]] 2 wherein the datastore is an object database.

13. (Currently Amended) The framework of claim [[10]] 2 wherein the datastore is accessed remotely.

14. (Currently Amended) A method for isolating a business component from specific implementation of a datastore, comprising:

- (a) supplying a database wrapper;
- (b) using the database wrapper to begin a database session;
- (c) using the database wrapper to obtain a domain object factory;
- (d) using the domain object factory to create a domain object;
- (e) converting the domain object from a persistent state to a transient state;
- (f) ending the database session; and
- (g) returning the domain object to the business component, wherein the database wrapper provides an additional abstraction layer between the domain object factory and the business component;

wherein the domain object factory comprises a domain object interface in communication with the database wrapper and a domain object factory implementation implementing the domain object;

wherein the domain object comprises a domain object interface in communication with the domain object factory and a domain object implementation retrieving data from a datastore; and

wherein data is converted from a persistent state to a transient state prior to being passed from the database wrapper to the business component.

*Allowance*

5. Claims 1-2, 6-9, and 11-14 are allowed over the prior art made of record.
6. The following is an examiner's statement of reasons for allowance:

The applicant's amendment, filed on 10-October-2005, and the examiner's amendment, authorized by the attorney of record on 04-November-2005, overcome the cited prior art with respect to the independent claims:

Independent claims 1, 9 and 14 are amended to recite:

“wherein the domain object factory comprises a domain object interface in communication with the database wrapper and a domain object factory implementation implementing the domain object;

wherein the domain object comprises a domain object interface in communication with the domain object factory and a domain object implementation retrieving data from a datastore; and

wherein data is converted from a persistent state to a transient state prior to being passed from the database wrapper to the business component”, which are not suggested or taught by the prior art references made of record.

Claims 2 and 6-8 are allowed as dependents of allowed independent claim 1.

Claims 11-13 are allowed as dependents of allowed independent claim 9.

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***Conclusion***

7. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Tony Mahmoudi whose telephone number is (571) 272-4078. The examiner can normally be reached on Mondays-Fridays from 08:00 am to 04:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin, can be reached at (571) 272-4146.

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November 4, 2005